EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S107	24	@ad<"20000915" and watermark$3 and (phase adj modulat$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 09:57
S108	16	@ad<"20000915" and (watermark$3 embed$4) and (phase near2 modulat$3) and (ronchi moir?)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 09:57
S109	16	@ad<"20000915" and (watermark$3 embed$4) and (phase near2 modulat$3) and (ronchi moir$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:40
S110	1230	283/72.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:40
S111	191	283/93.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:40
S112	702	283/94.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:41
S113	200	283/113.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:41
S114	2148	S110 S111 S112 S113	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:41

EAST Search History

S115	1434	S114 and @ad<"20000915"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:41
S116	63	S114 and @ad<"20000915" and moire	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:43
S117	1	S114 and @ad<"20000915" and moire and ronchi	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:41
S118	15	S114 and @ad<"20000915" and moire and (phase)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:54
S119	6	S114 and @ad<"20000915" and moire same (phase)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 13:11
S120	2	"6252971".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 13:11
S121	2037	713/176.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/10/13 14:43
S122	264	358/3.28.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/10/13 14:43
S123	437	380/54.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/10/13 14:43
S124	346	380/51.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/10/13 14:43

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  John Colter, Netscape Navigator
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Relevance scale

1 A truly generative semantics-directed compiler generator

Harald Ganzinger, Robert Giegerich, Ulrich Möncke, Reinhard Wilhelm

June 1982 **ACM SIGPLAN Notices , Proceedings of the 1982 SIGPLAN symposium on Compiler construction SIGPLAN '82**, Volume 17 Issue 6

Publisher: ACM Press

Full text available: pdf(918.86 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes semantic processing in the compiler generating system MUG2. MUG2 accepts high-level descriptions of the semantics of a programming language including full runtime semantics, data flow analysis, and optimizing transformations. This distinguishes MUG2 from systems such as YACC [Joh75], HLP [HLP78], PQCC [PQC79], or its own former version [GRW77] with respect to expressive power and convenience. In this respect, MUG2 comes close to semantics-directed systems such as [Mos76 ...

2 Two dimensional codes for low power

M. Stan, W. Burleson

August 1996 **Proceedings of the 1996 international symposium on Low power electronics and design**

Publisher: IEEE Press

Full text available: pdf(175.92 KB) Additional Information: full citation, references, citings, index terms

3 Efficient BIST hardware insertion with low test application time for synthesized data paths

Nicola Nicolici, Bashir M. Al-Hashimi

January 1999 **Proceedings of the conference on Design, automation and test in Europe**

Publisher: ACM Press

Full text available: pdf(92.00 KB) Additional Information: full citation, index terms

4 Self-assessment procedure XVIII: fundamentals of data communications

John C. Munson

March 1988 **Communications of the ACM**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(621.92 KB) Additional Information: full citation, abstract, references, index terms, review

A self-assessment procedure dealing with the fundamentals of data communications

5 Network Protocols



Andrew S. Tanenbaum

December 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 4

Publisher: ACM Press

Full text available: pdf(3.37 MB) Additional Information: full citation, references, citings, index terms

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1 Universal constructions for multi-object operations

James H. Anderson, Mark Moir
August 1995 **Proceedings of the fourteenth annual ACM symposium on Principles of distributed computing**
Publisher: ACM Press
Full text available: pdf(1.07 MB) Additional Information: full citation, references, citings, index terms

2 A real world conversion to SGML

Dee Stribling, Tim Hunter, Len Olszewski, Anne Corrigan, Randy Mullis, Lloyd Allen
October 1996 **Proceedings of the 14th annual international conference on Systems documentation: Marshaling new technological forces: building a corporate, academic, and user-oriented triangle**
Publisher: ACM Press
Full text available: pdf(1.19 MB) Additional Information: full citation, index terms

3 Continuous anti-aliased rotation and zoom of raster images

Carl F. R. Weiman
July 1980 **ACM SIGGRAPH Computer Graphics , Proceedings of the 7th annual conference on Computer graphics and interactive techniques SIGGRAPH '80**, Volume 14 Issue 3
Publisher: ACM Press
Full text available: pdf(739.08 KB) Additional Information: full citation, abstract, references, citings, index terms

Raster graphics images are difficult to smoothly rotate and zoom because of geometric digitization error. A new algorithm is presented for continuous rotation and zoom, free from the disturbing aliasing artifacts introduced by traditional methods. Applications include smooth animation. No matrix multiplication of pixel coordinates is executed. Instead row and column parallel operations which resemble local digital filters are used. This suggests real time implementation with simple hardware ...

Keywords: Aliasing, Image processing, Large scale integration, Linear interpolation, Parallel computation, Raster graphics, Real-time graphics, Rothstein code

4 Reconstruction filters in computer-graphics

Don P. Mitchell, Arun N. Netravali

June 1988 **ACM SIGGRAPH Computer Graphics , Proceedings of the 15th annual conference on Computer gra phics and interactive techniques SIGGRAPH '88**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: pdf(2.12 MB) Additional Information: full citation, abstract, references, citings, index terms

Problems of signal processing arise in image synthesis because of transformations between continuous and discrete representations of 2D images. Aliasing introduced by sampling has received much attention in graphics, but reconstruction of samples into a continuous representation can also cause aliasing as well as other defects in image quality. The problem of designing a filter for use on images is discussed, and a new family of piecewise cubic filters are investigated as a practical demonstrati ...

Keywords: antialiasing, cubic filters, derivative reconstruction, filters, reconstruction, sampling

5 A time complexity lower bound for randomized implementations of some shared objects

Prasad Jayanti

June 1998 **Proceedings of the seventeenth annual ACM symposium on Principles of distributed computing**

Publisher: ACM Press

Full text available: pdf(1.43 MB) Additional Information: full citation, references, citings, index terms

6 A lower bound on the local time complexity of universal constructions

Prasad Jayanti

June 1998 **Proceedings of the seventeenth annual ACM symposium on Principles of distributed computing**

Publisher: ACM Press

Full text available: pdf(1.20 MB) Additional Information: full citation, references, citings, index terms

7 Disentangling multi-object operations (extended abstract)

Yehuda Afek, Michael Merritt, Gadi Taubenfeld, Dan Touitou

August 1997 **Proceedings of the sixteenth annual ACM symposium on Principles of distributed computing PODC '97**

Publisher: ACM Press

Full text available: pdf(1.11 MB) Additional Information: full citation, references, citings, index terms

8 Bounds on the shared memory requirements for long-lived & adaptive objects (extended abstract)

Yehuda Afek, Pazi Boxer, Dan Touitou

July 2000 **Proceedings of the nineteenth annual ACM symposium on Principles of distributed computing**

Publisher: ACM Press

Full text available: pdf(948.90 KB) Additional Information: full citation, abstract, references, citings, index

terms

In this paper we prove: For any constant d there is a large enough n such that there is no long-lived adaptive implementation of collect or renaming in the read write model with n processes that uses d or less MWMR registers. In other words, there is no implementation of a long-lived and adaptive renaming or collect object in the atomic read/write model that uses O(1) multi-writer-multi-reader registers and any number of single-writer-multi-reader registers. In 1 ...

9 Implementing wait-free objects on priority-based systems

James H. Anderson, Srikanth Ramamurthy, Rohit Jain

August 1997 **Proceedings of the sixteenth annual ACM symposium on Principles of distributed computing**

Publisher: ACM Press

Full text available: pdf(1.19 MB) Additional Information: full citation, references, citings, index terms

10 Contributions: focus: new visualization techniques: Practical scientific visualization examples

Russell M. Taylor

February 2000 **ACM SIGGRAPH Computer Graphics**, Volume 34 Issue 1

Publisher: ACM Press

Full text available: pdf(1.60 MB) Additional Information: full citation, abstract, references

Scientific visualization has yet to become a discipline founded on well-understood principles. In some cases we have rules of thumb, and there are studies that probe the capabilities and limitations of specific techniques. For the most part, however, visualization consists of a collection of *ad hoc* techniques and lovely examples. This article collects examples where visualization was found to be useful for particular insights or where it enabled new and fruitful types of experiment.

11 Thread scheduling for multiprogrammed multiprocessors

Nimar S. Arora, Robert D. Blumofe, C. Greg Plaxton

June 1998 **Proceedings of the tenth annual ACM symposium on Parallel algorithms and architectures**

Publisher: ACM Press

Full text available: pdf(1.77 MB) Additional Information: full citation, references, citings, index terms

12 Implications of Codesign as a Natural Constituent of a Systems Engineering Discipline for Computer Based Systems

Markus Voss, Oliver Hammerschmidt

March 1996 **Proceedings of the 4th International Workshop on Hardware/Software Co-Design**

Publisher: IEEE Computer Society

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract

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Within this paper we argue that Hardware/Software Codesign must first of all be regarded as an important but nevertheless subordinate part of a disciplined procedure of engineering computer based systems in general. Defining so a set of consequences result the discussion of which is this contribution's major concern. In this paper we first present the contents of a discipline of engineering of computer based systems and elaborate on the special meaning of design in general and codesign in partic ...

Keywords: Engineering of Computer Based Systems, Hardware/Software- Codesign, Design Theory

13 Experiences in asynchrony

Jean Suchard
September 1973 **Conference record of the 6th annual workshop on Microprogramming**
Publisher: ACM Press
Full text available: pdf(200.52 KB) Additional Information: full citation, abstract, references, index terms

The design and implementation of systems including independent and specific organs, as processors, storage units and I/O devices, bring up the fundamental problem of the information exchange between asynchronous organs. Report is made of experimental work followed up from four years, on different kinds of clusters and on two asynchronous exchange mechanisms adapted to them.

14 Special issue: AI in engineering

D. Sriram, R. Joobbani
April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

15 Semantical interprocedural parallelization: an overview of the PIPS project

François Irigoin, Pierre Jouvelot, Rémi Triolet
June 1991 **Proceedings of the 5th international conference on Supercomputing**
Publisher: ACM Press
Full text available: pdf(866.56 KB) Additional Information: full citation, references, citings, index terms

16 COMA: an opportunity for building fault-tolerant scalable shared memory multiprocessors

Christine Morin, Alain Gefflaut, Michel Banâtre, Anne-Marie Kermarrec
May 1996 **ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture ISCA '96**, Volume 24 Issue 2
Publisher: ACM Press
Full text available: pdf(1.30 MB) Additional Information: full citation, abstract, references, citings, index terms

Due to the increasing number of their components, Scalable Shared Memory Multiprocessors (SSMMs) have a very high probability of experiencing failures. Tolerating node failures therefore becomes very important for these architectures particularly if they must be used for long-running computations. In this paper, we show that the class of Cache Only Memory Architectures (COMA) are good candidates for building fault-tolerant SSMMs. A backward error recovery strategy can be implemented without sign ...

Keywords: Scalable Shared

17 Machine learning and vectorial matching for an image retrieval model: EXPRIM and the system RIVAGE

G. Halin, M. Créhange, P. Kerekes
December 1989 **Proceedings of the 13th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: pdf(1.41 MB) Additional Information: full citation, references, citings, index terms

18 Une troisième version du "Dicautom"
J. A. Bachrach, L. Hirschberg
August 1967 **Proceedings of the 1967 conference on Computational linguistics**
Publisher: Association for Computational Linguistics
Full text available: pdf(805.11 KB) Additional Information: full citation, references

19 Design, implementation and evaluation of the FNC-2 attribute grammar system
Martin Jourdan, Didier Parigot, Catherine Julié, Olivier Durin, Carole Le Bellec
June 1990 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1990 conference on Programming language design and implementation PLDI '90**, Volume 25 Issue 6
Publisher: ACM Press
Full text available: pdf(1.61 MB) Additional Information: full citation, abstract, references, citings, index terms

FNC-2 is a new attribute grammar processing system aiming at expressive power, efficiency, ease of use and versatility. Its development at INRIA started in 1986, and a first running prototype is available since early 1989. Its most important features are: efficient exhaustive and incremental visit-sequence-based evaluation of strongly (absolutely) non-circular AGs; extensive space optimizations; a specially-designed AG-description language, with provisions for true modularity; portability a ...

20 Deterministic and stochastic modeling of parallel garbage collection: towards real-time criteria
O. Ridoux
June 1987 **Proceedings of the 14th annual international symposium on Computer architecture**
Publisher: ACM Press
Full text available: pdf(759.41 KB) Additional Information: full citation, abstract, references, index terms

The study of garbage collection for a logic programming language machine has exhibited fundamental differences with the more popular functional programming garbage collection. These differences yield behaviours that cannot be observed with classical models. We give two new models, (one is determistic and the other stochastic) which take into account these behaviours. We argue that the stochastic model is also suitable for more classical garbage collector, and that it overcomes deterministic ...

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Relevance scale

21 Le projet de traduction automatique à l'Université de Montreal

André Dugas, Myrna Gopnik, Brian Harris, Jean-Pierre Paillet
September 1969 **Proceedings of the 1969 conference on Computational linguistics**

Publisher: Association for Computational Linguistics

Full text available: pdf(1.03 MB) Additional Information: full citation, references

22 Three-dimensional object recognition

Paul J. Besl, Ramesh C. Jain
March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(7.76 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A general-purpose computer vision system must be capable of recognizing three-dimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this problem, and reviews the relevant literature. Because range images (or depth maps) are often used as sensor input instead of intensity images, techniques for obtaining, processing, and characterizing range data are also surveyed.

23 Progress in Picture Processing: 1969--71

Azriel Rosenfeld
June 1973 **ACM Computing Surveys (CSUR)**, Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(2.34 MB) Additional Information: full citation, references, citings, index terms

24 Real-time computing with lock-free shared objects

James H. Anderson, Srikanth Ramamurthy, Kevin Jeffay
May 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 2

Publisher: ACM Press

Full text available: pdf(390.82 KB) Additional Information: full citation, abstract, references, citings, index terms

This article considers the use of lock-free shared objects within hard real-time systems. As the name suggests, lock-free shared objects are distinguished by the fact that they are accessed without locking. As such, they do not give rise to priority inversions, a key advantage over conventional, lock-based object-sharing approaches. Despite this advantage, it is not immediately apparent that lock-free shared objects can be employed if tasks must adhere to strict timing cons ...

Keywords: critical sections, deadline monotonic, earliest deadline first, hard real time, lock free, rate monotonic, scheduling, synchronization, wait free

25 Stability of long-lived consensus (extended abstract)

Shlomi Dolev, Sergio Rajsbaum
July 2000 **Proceedings of the nineteenth annual ACM symposium on Principles of distributed computing**
Publisher: ACM Press
Full text available: pdf(951.26 KB) Additional Information: full citation, abstract, references, index terms

This paper introduces the notion stability for a long-lived consensus system. This notion reflects how sensitive to changes the decisions of the system are, from one invocation of the consensus algorithm to the next, with respect to input changes. Stable long-lived consensus systems are proposed, and tight lower bounds on the achievable stability are proved, for several different scenarios. The scenarios include systems that keep memory from one invocation of consensus to t ...

26 Rotated dispersed dither: a new technique for digital halftoning

Victor Ostromoukhov, Roger D. Hersch, Isaac Amidror
July 1994 **Proceedings of the 21st annual conference on Computer graphics and interactive techniques**
Publisher: ACM Press
Full text available: pdf(691.60 KB) ps(1.62 MB) Additional Information: full citation, abstract, references, citings, index terms

Rotated dispersed-dot dither is proposed as a new dither technique for digital halftoning. It is based on the discrete one-to-one rotation of a Bayer dispersed-dot dither array. Discrete rotation has the effect of rotating and splitting a significant part of the frequency impulses present in Bayer's halftone arrays into many low-amplitude distributed impulses. The halftone patterns produced by the rotated dither method therefore incorporate fewer disturbing artifacts than the horizontal and ...

27 Wait-free synchronization in multiprogrammed systems: integrating priority-based and quantum-based scheduling

James H. Anderson, Mark Moir
May 1999 **Proceedings of the eighteenth annual ACM symposium on Principles of distributed computing**
Publisher: ACM Press
Full text available: pdf(1.30 MB) Additional Information: full citation, references, citings, index terms

28 From range scans to 3D models

Brian Curless
November 1999 **ACM SIGGRAPH Computer Graphics**, Volume 33 Issue 4
Publisher: ACM Press
Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, citings, index terms

Each year, we see a growing number of 3D range scanning products on the SIGGRAPH

exhibition floor. You may find yourself asking "how do these technologies work?" and "how can I make use of the shape data they produce?" In this article, I will describe a few of the more common range scanning technologies. Then, I will step through a pipeline that takes the range data into a single geometric model and will conclude with a discussion of the future of range scanning.

29 Recent technical reports

SIGACT News Staff
July 1979 **ACM SIGACT News**, Volume 11 Issue 1
Publisher: ACM Press
Full text available: pdf(1.77 MB) Additional Information: full citation

30 Model-based object recognition in dense-range images—a review

Farshid Arman, J. K. Aggarwal
March 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 1
Publisher: ACM Press
Full text available: pdf(3.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The goal in computer vision systems is to analyze data collected from the environment and derive an interpretation to complete a specified task. Vision system tasks may be divided into data acquisition, low-level processing, representation, model construction, and matching subtasks. This paper presents a comprehensive survey of model-based vision systems using dense-range images. A comprehensive survey of the recent publications in each subtask pertaining to dense-range image object recogni ...

Keywords: 3D object recognition, 3D representations, CAD-based vision, dense-range images, image understanding

31 Lexicology: Dictionnaire automatique et dictionnaire-machine: une hypothèse

Giacomo Ferrari
August 1973 **Proceedings of the 5th conference on Computational linguistics - Volume 1**
Publisher: Association for Computational Linguistics
Full text available: pdf(324.30 KB) Additional Information: full citation

32 New directions for computational science and supercomputing in secondary school

Donald W. Hyatt, Phyllis T. Rittman
November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)**
Publisher: IEEE Computer Society
Full text available: html(15.32 KB) Additional Information: full citation, abstract, references

The authors discuss educational strategies involving computational science at the secondary school level including scientific visualization using OpenGL graphics and parallel computing using PVM. They share curriculum ideas from a course called Supercomputer Applications including details from a unit on missile trajectory that progresses from a simple computer model to a computationally intensive supercomputer application.

33 Microcode compaction with timing constraints

Bogong Su, Shiyuan Ding, Jian Wang, Jinshi Xia

December 1987 **Proceedings of the 20th annual workshop on Microprogramming**
Publisher: ACM Press
Full text available: pdf(781.09 KB) Additional Information: full citation, abstract, references, citings

At present, microcode compaction with timing constraints (abbreviated as MCTC) is still an open problem. Complex timing relation between microoperations greatly affects the optimization result of microcode. This paper begins with a survey of MCTC problems, then presents a formal description of MCTC and, on the basis of a systematic study of the characteristics of MCTC, presents a generally-oriented heuristic algorithm— CAS, which has a high success rate of scheduling and promises good ...

34 Fast deterministic consensus in a noisy environment
James Aspnes
July 2000 **Proceedings of the nineteenth annual ACM symposium on Principles of distributed computing**
Publisher: ACM Press
Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings, index terms

It is well known that the consensus problem cannot be solved deterministically in an asynchronous environment, but that randomized solutions are possible. We propose a new model, called noisy scheduling, in which an adversarial schedule is perturbed randomly, and show that in this model randomness in the environment can substitute for randomness in the algorithm. In particular, we show that a simplified, deterministic version of Chandra's wait-free shared-m ...

35 Problemes syntaxiques de l'indexation automatique de documents
Andrée Borillo, Jacques Virbel
August 1967 **Proceedings of the 1967 conference on Computational linguistics**
Publisher: Association for Computational Linguistics
Full text available: pdf(1.04 MB) Additional Information: full citation, references

36 Reconstructing curved surfaces from specular reflection patterns using spline surface fitting of normals
Mark A. Halstead, Brain A. Barsky, Stanley A. Klein, Robert B. Mandell
August 1996 **Proceedings of the 23rd annual conference on Computer graphics and interactive techniques**
Publisher: ACM Press
Full text available: pdf(511.46 KB) Additional Information: full citation, references, citings, index terms

Keywords: corneal modeling, normal fitting, photogrammetry, surface reconstruction, videokeratography

37 Real-time object sharing with minimal system support
Srikanth Ramamurthy, Mark Moir, James H. Anderson
May 1996 **Proceedings of the fifteenth annual ACM symposium on Principles of distributed computing**
Publisher: ACM Press
Full text available: pdf(1.18 MB) Additional Information: full citation, references, citings, index terms

38 Using artificial intelligence techniques for intelligent simulation in memory re-education

Christine Bonnet, Helene Taterode, Jacques Kouloumdjian, Mohand-Said Hacid

June 1990 **Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2 IEA/AIE '90**

Publisher: ACM Press

Full text available: pdf(618.24 KB) Additional Information: full citation, abstract, references, index terms

The increasing complexity of new applications has made it necessary to have tools offering a large spectrum of functionalities and several paradigms. This is especially true for intelligent tutoring systems which need (meta)rule based inference for adaptive teaching strategies, object oriented paradigm for learner modeling, graphic simulation tools and large data management facilities for storing lessons and results. The carrying out of such tools, where several software cooperate, should t ...

39 Towards a topological characterization of asynchronous complexity

Gunnar Hoest, Nir Shavit

August 1997 **Proceedings of the sixteenth annual ACM symposium on Principles of distributed computing**

Publisher: ACM Press

Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings, index terms

40 Characteristics and models of program behaviour

Patrice Burgevin, Jacques Leroudier

October 1976 **Proceedings of the annual conference**

Publisher: ACM Press

Full text available: pdf(513.28 KB) Additional Information: full citation, abstract, references, citings, index terms

By interpreting the execution of programs on a CII 10070 computer, data on the characteristics of program behaviour during their execution have been collected. The results concern the activity of programs in their address space and the time interval distributions between the I/O requests of a program. These observations have been used to validate and to characterize models of program behaviour such as the LRU stack, the life-time function and the working-set, and to point out the relationsh ...

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41 A hardware laboratory for computer architecture research

Jean Vaucher, Christian Rey
December 1973 **ACM SIGARCH Computer Architecture News , Proceedings of the 1st annual symposium on Computer architecture ISCA '73**, Volume 2 Issue 4
Publisher: ACM Press
Full text available: pdf(518.91 KB) Additional Information: full citation, abstract, references, citings, index terms

Because of dramatic reductions in cost of mini-computers, peripherals and logic modules, it is becoming evident that many problems confronting the computer system designer will be solved in the future by hybrid designs involving not only software but also specialized computers with architectures best suited to each application. Accordingly, hardware research must no longer be considered as a separate discipline by system programmers but as a tool in exactly the same way as languages. To ill ...

42 An extensible approach to imagery of gridded data

Geoffrey Dutton
July 1977 **ACM SIGGRAPH Computer Graphics , Proceedings of the 4th annual conference on Computer graphics and interactive techniques SIGGRAPH '77**, Volume 11 Issue 2
Publisher: ACM Press
Full text available: pdf(3.19 MB) Additional Information: full citation, abstract, references, citings

A program offering a variety of cartographic techniques for mapping gridded data is described. Dot-distribution maps, several forms of contour maps and screen-toned maps are currently implemented for plotter and vector CRT. The structure and logic of the program is discussed and illustrated. The approach requires only local access to a data grid in a paging environment, allowing large data sets to be manipulated. Maps output may be plotted at any scale, irrespective of the size of the plotting d ...

Keywords: analytic hill-shading, cartography, contour mapping, device independence, dot-distribution mapping, gridded data, halftone imagery, inclined contour mapping, spatial analysis, spatial gradients, thematic mapping, vector graphics, virtual graphics, virtual memory

43 A french text recognition model for information retrieval system

G. Antoniadis, G. Lallich-Boidin, Y. Polity, J. Rouault

May 1988 **Proceedings of the 11th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: pdf(1.81 MB) Additional Information: full citation, references, citings, index terms

44 Antialiasing of interlaced video animation
John Amanatides, Don P. Mitchell
September 1990 **ACM SIGGRAPH Computer Graphics , Proceedings of the 17th annual conference on Computer graphics and interactive techniques SIGGRAPH '90**, Volume 24 Issue 4
Publisher: ACM Press
Full text available: pdf(7.19 MB) Additional Information: full citation, abstract, references, citings, index terms

The production of computer-generated video presents a number of difficulties not encountered with motion pictures. Interlaced scanning and the color subcarrier of NTSC video are responsible for special problems such as interline flicker, and chroma aliasing. As in motion pictures, temporal aliasing is also an issue. A renderer can sample and filter a moving image in an arbitrary manner and is not constrained to simply imitate the behavior of a television camera. This paper explores several diffe ...

45 Automatic generation of microprocessor test programs
C. Bellon, A. Liothin, S. Sadier, G. Saucier, R. Velazco, F. Grillot, M. Issenman
January 1982 **Proceedings of the 19th conference on Design automation**
Publisher: IEEE Press
Full text available: pdf(536.88 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an automatic generation system for behavioral test programs of microprocessors. First, the test environment is presented, as well as its consequences on test program generation. In the second part, the test principles are outlined; it is a behavioral test, i.e a test determined from the user's description of the microprocessor; the resulting test programs are quite modular. The third part presents the description language and the generation system.

46 Scripting highly autonomous simulation behavior using case-based reasoning
Niels Catsimpoolas, Jed Marti
April 1992 **Proceedings of the 25th annual symposium on Simulation ANSS '92**
Publisher: IEEE Computer Society Press
Full text available: pdf(836.89 KB) Additional Information: full citation, references, index terms

47 A muscle model for animation three-dimensional facial expression
Keith Waters
August 1987 **ACM SIGGRAPH Computer Graphics , Proceedings of the 14th annual conference on Computer graphics and interactive techniques SIGGRAPH '87**, Volume 21 Issue 4
Publisher: ACM Press
Full text available: pdf(995.74 KB) Additional Information: full citation, abstract, references, citings, index terms

The development of a parameterized facial muscle process, that incorporates the use of a model to create realistic facial animation is described.Existing methods of facial parameterization have the inherent problem of hard-wiring performable actions. The

development of a muscle process that is controllable by a limited number of parameters and is non-specific to facial topology allows a richer vocabulary and a more general approach to the modelling of the primary facial expressions.A brief discu ...

48 Anisotropic reflection models

James T. Kajiya

July 1985 **ACM SIGGRAPH Computer Graphics , Proceedings of the 12th annual conference on Computer graphics and interactive techniques SIGGRAPH '85**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references, citings, index terms

We present a new set of lighting models derived from the questions of electromagnetism. These models describe the reflection and refraction of light from surfaces which exhibit anisotropy---surfaces with preferred directions. The model allows a new mapping technique, which we call *frame mapping*. We also discuss the general relationship between geometric models, surface mapping of all types, and lighting models in the context of rendering images with extreme complexity.

Keywords: computer graphics, frame mapping, lighting models, raster graphics, surface mapping, texture mapping

49 Tools: Talisman: un systeme multi-agents gouverne par des lois linguistiques pour le traitement de la langue naturelle

Marie-Helene Stefanini, Alain Berrendonner, Genevieve Lallich, Flavio Oquendo

August 1992 **Proceedings of the 14th conference on Computational linguistics - Volume 2**

Publisher: Association for Computational Linguistics

Full text available: pdf(598.23 KB) Additional Information: full citation, abstract, references

Natural language processing raises the problem of ambiguities and multiple solutions which follow from them. The knowledge gained when using the morphosyntactic analyser CRISSTAL showed how necessary it was to overcome this issue. The architecture with sequential levels, in which each module corresponds to a linguistic level (pretreatments, morphology, syntax, semantics) has shown its limits. A sequential architecture does not allow a real exchange between different modules. This leads to the no ...

Keywords: communication protocols, distributed artificial intelligence, environment framework for linguistics tools, law governed systems, multi-agent systems, natural language, written French

50 Tools: Elaboration de techniques d'analyse adaptées à la construction d'une base de connaissances

F. Rousselot, Eric Grill, B. Migault Ensais, P. Igot

August 1992 **Proceedings of the 14th conference on Computational linguistics - Volume 2**

Publisher: Association for Computational Linguistics

Full text available: pdf(442.53 KB) Additional Information: full citation, references

51 The design of an integrated, interactive and incremental programming environment

Harald Wertz

September 1982 **Proceedings of the 6th international conference on Software**

engineering

Publisher: IEEE Computer Society Press

Full text available: pdf(721.32 KB) Additional Information: full citation, abstract, references, citings, index terms

We are currently implementing a system to help experienced programmers during the development, implementation and debugging of their programs. This system, built on top of a screen oriented structural editor, offers possibilities of attaching descriptors to every portion of the program and to maintain - simultaneously - different versions of the program being written, including tentative hypothetical versions. It comprises a mecanism to maintain minimal consistency between modified parts of ...

52 An efficient algorithm for computing optimal disk merge patterns. (Extended Abstract)

L. Hyafil, F. Prusker, J. Vuillemin

April 1974 **Proceedings of the sixth annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available: pdf(527.09 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present an algorithm which computes the optimal pattern for merging n equal size sorted sequences stored on a disk, in time O(log n) and constant space. The best previously known algorithm for solving this problem (Knuth [4], Schlumberger-Vuillemin [5]) takes time O(n2) and space O(n).

Keywords: Analysis of algorithms, Direct access devices, Merging, Sorting

53 Animated cartography for urban soundscape information

Myoung-Ah Kang, Sylvie Servigne

November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available: pdf(307.46 KB) Additional Information: full citation, references, index terms

Keywords: animated cartography, data modelling, spatio-temporal data, visualization

54 Experimental evaluation of a generic abstract interpretation algorithm for PROLOG

Baudouin Le Charlier, Pascal Van Hentenryck

January 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 16 Issue 1

Publisher: ACM Press

Full text available: pdf(4.18 MB) Additional Information: full citation, abstract, references, citings, index terms

Abstract interpretation of PROLOG programs has attracted many researchers in recent years, partly because of the potential for optimization in PROLOG compilers and partly because of the declarative nature of logic programming languages that make them more amenable to optimization than procedural languages. Most of the work, however, has remained at the theoretical level, focusing on the developments of frameworks and the definition of abstract domains. This paper reports our effo ...

Keywords: PROLOG, abstract interpretation, fixpoint algorithm

55

Three-dimensional alpha shapes
Herbert Edelsbrunner, Ernst P. Mücke
January 1994 **ACM Transactions on Graphics (TOG)**, Volume 13 Issue 1
Publisher: ACM Press
Full text available: pdf(8.86 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Frequently, data in scientific computing is in its abstract form a finite point set in space, and it is sometimes useful or required to compute what one might call the "shape" of the set. For that purpose, this article introduces the formal notion of the family of &agr;-shapes of a finite point set in R3. Each shape is a well-defined polytope, derived from the Delaunay triangulation of the point set, with a parameter &agr; &egr; R controlling the desired lev ...

Keywords: Delaunay triangulations, computational graphics, geometric algorithms, point sets, polytopes, robust implementation, scientific computing, scientific visualization, simplicial complexes, simulated perturbation, three-dimensional space

56 Artistic screening
Victor Ostromoukhov, Roger D. Hersch
September 1995 **Proceedings of the 22nd annual conference on Computer graphics and interactive techniques**
Publisher: ACM Press
Full text available: pdf(4.15 MB) Additional Information: full citation, references, citings, index terms

Keywords: artistic screening, graphic design, halftoning, image reproduction, microlettering

57 Generating antialiased images at low sampling densities
Don P. Mitchell
August 1987 **ACM SIGGRAPH Computer Graphics , Proceedings of the 14th annual conference on Computer graphics and interactive techniques SIGGRAPH '87**, Volume 21 Issue 4
Publisher: ACM Press
Full text available: pdf(2.64 MB) Additional Information: full citation, abstract, references, citings, index terms

Ray tracing produces point samples of an image from a 3-D model. Constructing an antialiased digital picture from point samples is difficult without resorting to extremely high sampling densities. This paper describes a program that focuses on that problem. While it is impossible to eliminate aliasing totally, it has been shown that nonuniform sampling yields aliasing that is less conspicuous to the observer. An algorithm is presented for fast generation of nonuniform sampling patterns that are ...

58 Lightweight remote procedure call
B. Bershad, T. Anderson, E. Lazowska, H. Levy
November 1989 **ACM SIGOPS Operating Systems Review , Proceedings of the twelfth ACM symposium on Operating systems principles SOSP '89**, Volume 23 Issue 5
Publisher: ACM Press
Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms

Lightweight Remote Procedure Call (LRPC) is a communication facility designed and

optimized for communication between protection domains on the same machine. In contemporary small-kernel operating systems, existing RPC systems incur an unnecessarily high cost when used for the type of communication that predominates — between protection domains on the same machine. This cost leads system designers to coalesce weakly-related subsystems into the same protection domain, tradin ...

59 Algorithms for solid noise synthesis

J. P. Lewis

July 1989 **ACM SIGGRAPH Computer Graphics , Proceedings of the 16th annual conference on Computer graphics and interactive techniques SIGGRAPH '89**, Volume 23 Issue 3

Publisher: ACM Press

Full text available: pdf(4.69 MB) Additional Information: full citation, abstract, references, citings, index terms

A solid noise is a function that defines a random value at each point in space. Solid noises have immediate and powerful applications in surface texturing, stochastic modeling, and the animation of natural phenomena.Existing solid noise synthesis algorithms are surveyed and two new algorithms are presented. The first uses Wiener interpolation to interpolate random values on a discrete lattice. The second is an efficient sparse convolution algorithm. Both algorithms are developed for *model-dir ...*

60 Color gamut mapping and the printing of digital color images

Maureen C. Stone, William B. Cowan, John C. Beatty

October 1988 **ACM Transactions on Graphics (TOG)**, Volume 7 Issue 4

Publisher: ACM Press

Full text available: pdf(6.06 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Principles and techniques useful for calibrated color reproduction are defined. These results are derived from a project to take digital images designed on a variety of different color monitors and accurately reproduce them in a journal using digital offset printing. Most of the images printed were reproduced without access to the image as viewed in its original form; the color specification was derived entirely from calorimetric specification. The techniques described here are not specific ...

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1. **Developing phase-shifting micro moire interferometry using phase shifter with rough resolution and by shifting specimen grating**
 Se Young Yang; Soon Bok Lee;
 Electronic Materials and Packaging, 2001. EMAP 2001. Advances in
 19-22 Nov. 2001 Page(s):399 - 403
 IEEE CNF

2. **Intensity modulated moire and its intensity-phase analysis**
 Cunwei Lu; Yamaguchi, A.; Inokuchi, S.;
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3. **An absolute depth range measurement of 3-D objects based on modulation Moire topography**
 Lu, C.; Inokuchi, S.;
 Pattern Recognition, 2000. Proceedings. 15th International Conference on
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4. **Measurement of thermally induced warpage of BGA packages/substrates using phase-stepping shadow moire**
 Wang, Y.Y.; Hassell, P.;
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5. **Non-linear resampling for edge-preserving moire suppression**
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6. **Resolving displacement field of solder ball in flip-chip package by both phase shifting moire interferometry and FEM modeling**
 Sheng Liu; Jianjun Wang; Daqing Zou; Xiaoynan He; Zhengfang Qian; Guo, Y.;
 Electronic Components and Technology Conference, 1998. 48th IEEE
 25-28 May 1998 Page(s):1345 - 1353
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7. **Precision position control systems using moire signals**
 Jingnan Liu; Furuhashi, H.; Torii, A.; Hayashi, N.; Yamada, J.; Uchida, Y.; Sharma, R.; Kanjilal, A.K.; Chitnis, V.T.;
 Industrial Electronics, Control, and Instrumentation, 1995., Proceedings of the 1995 IEEE IECON 21st International Conference on
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8. **Evaluation of thermal deformation behavior in electronic package using UV moire interferometry**
 Jin-Hyoung Park; Soon-Bok Lee;

Electronics Materials and Packaging, 2005. EMAP 2005. International Symposium on
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9. **Wavelength tuning in self-seeded gain switched Fabry-Perot laser diode with moire grating**
Shenping Li; Chiang, K.S.; Gambling, W.A.;
Electronics Letters
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IEE JNL

10. **Imaging of Si-crystal lattice by phase-contrast X-ray microscopy [for Avogadro constant determination]**
Bergamin, A.; Cavagnero, G.; Mana, G.; Massa, E.; Zosi, G.;
Precision Electromagnetic Measurements Digest, 2000 Conference on
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11. **Full-field wafer level thin film stress measurement by phase-stepping shadow Moire/spl acute/**
Kuo-Shen Chen; Chen, T.Y.-F.; Chia-Cheng Chuang; Lin, I.-K.;
Components and Packaging Technologies, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part A: Packaging Technologies, IEEE Transactions on]
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Albert, J.; Hill, K.O.; Johnson, D.C.; Bilodeau, F.; Rooks, M.J.;
Electronics Letters
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13. **Moire deflectometry in aero-optics analysis**
Almanasreh, A.; Abushagur, M.A.G.;
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14. **Low-cost optoelectronic system for three-dimensional artwork texture measurement**
Spagnolo, G.S.; Ambrosini, D.; Paoletti, D.;
Image Processing, IEEE Transactions on
Volume 13, Issue 3, March 2004 Page(s):390 - 396

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15. **Analysis of flip-chip packages using high resolution moire interferometry**
Miller, M.R.; Mohammed, I.; Xiang Dai; Ning Jiang; Ho, P.S.;
Electronic Components and Technology Conference, 1999. 1999 Proceedings. 49th
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16. **A study of the mixed-mode interfacial fracture toughness of adhesive joints using a multiaxial fatigue teste**
Jianjun Wang; Minfu Lu; Wei Ren; Daqing Zou; Sheng Liu;
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17. **Wavelet-transform analysis of spectral interferometry for phase reconstruction of femtosecond optical puls**
Yuqiang Deng; Zubin Wu; Lu Chai; Ching-yue Wang; Zhigang Zhang;
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Shi, X.Q.; Wang, Z.P.;
Electronic Components and Technology Conference, 2002. Proceedings. 52nd
28-31 May 2002 Page(s):183 - 191
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Everall, L.A.; Sugden, K.; Williams, J.A.R.; Liu, X.; Aitchison, J.S.; Bennion, I.; De La Rue, R.M.;
Integrated Optics and Optical Fibre Communications, 11th International Conference on, and 23rd European Conference on Optical Communications (Conf. Publ. No.: 448)
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Guotao Wang; Jie-Hua Zhao; Min Ding; Ho, P.S.;
Thermal and Thermomechanical Phenomena in Electronic Systems, 2002. ITHERM 2002. The Eighth Intersociety Conference on
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Inagaki, A.; Tagawa, N.; Minagawa, A.; Moriya, T.;
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Muroya, Y.; Sato, K.; Okuda, T.; Torikai, T.;
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Chen, L.R.; Cooper, D.J.F.; Smith, P.W.E.;
Photonics Technology Letters, IEEE
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Valera, J.D.; Jones, J.D.C.;
Electronics Letters
Volume 29, Issue 20, 30 Sept. 1993 Page(s):1789 - 1791
IEE JNL

25. **Conduction mechanism of anisotropic conductive adhesives (ACAs): conductor ball deformation and build up of contraction stresses**
Kyung-Wook Paik; Woon-Seong Kwon;
Advanced Packaging Materials: Processes, Properties and Interfaces, 2005. Proceedings. International Symposium on
16-18 March 2005 Page(s):214 - 220
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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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1. **Robust oblivious digital watermarking using image transform phase mod**
Alturki, F.; Mersereau, R.;
Image Processing, 2000. Proceedings. 2000 International Conference on
Volume 2, 10-13 Sept. 2000 Page(s):84 - 87 vol.2
Digital Object Identifier 10.1109/ICIP.2000.899233
AbstractPlus | Full Text: PDF(396 KB) **IEEE CNF**
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2. **An oblivious robust digital watermark technique for still images using DC modulation**
Alturki, F.; Mersereau, R.;
Acoustics, Speech, and Signal Processing, 2000. ICASSP '00. Proceedings. 2(International Conference on
Volume 6, 5-9 June 2000 Page(s):1975 - 1978 vol.4
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